

**AMENDMENTS TO THE SPECIFICATION:**

Page 1, immediately following the title, insert the following heading:

**Background of the Invention**

Page 3, between lines 14 and 15, insert the following heading:

**Summary of the Invention**

Page 6, between lines 22 and 23, insert the following heading:

**Brief Description of the Drawings**

Page 7, between lines 15 and 16, insert the following heading:

**Detailed Description**

Replace the paragraph beginning at page 12, line 8, with the following amended paragraph:

According to the first embodiment of the authentication process shown in FIG. 2, steps E1 to E6 following on from the initial step (E0) to determine an anonymous identifier (IA1), are essentially executed in the chip card (CP), and steps ~~E6~~ E7 to E15, to retrieve the user identifier (ID), are executed in the server resource (MS) of the radiotelephone network (RR).

Replace the paragraph beginning at page 18, line 12, with the following amended paragraph:

According to a variant of the embodiments described above, the visitor location register (VLR) in the network (RR) contains the AA and AS algorithms, which are executed at steps E9 and E10, or the ~~AS~~ AA algorithm which is executed at step E29, instead of being implemented and executed in the authentication centre.